

PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of:  
Young Tae SON

Appln. No.: PCT/KR01/00455

Filed: Concurrently herewith Attorney Dkt. No.: 108256-00016

For: APPARATUS AND METHOD FOR SELECTIVELY REMOVING A BODY FAT MASS OF HUMAN BODY

PRELIMINARY AMENDMENT

Commissioner for Patents  
Washington, D.C. 20231

February 21, 2002

Sir:

Prior to calculation of the filing fees and initial examination of the application, please amend the above-identified application as follows:

IN THE CLAIMS:

Please amend claims 3, 6, 11 and 13 as follows:

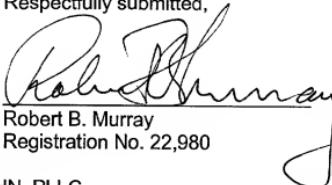
3. (Amended) The apparatus set forth in claim 1, further comprising: a pulse generator in low frequency band; and a transmitter, coupled to said generator, output the pulse from said generator to human body in a aerobic exercise state.
6. (Amended) The apparatus set forth in claim 1, wherein said transmitter comprises a contacting means on the human body.
11. (Amended) The method set forth in claim 7, further comprising:  
generating electric pulses of low frequency band; and transmitting said generated pulse to human body in a aerobic exercise state.

13. (Amended) The method set forth in claim 9, wherein the predetermined heart rate reference is determined based upon an age and/or an maximum heart rate and/or an fatness ration of an user.

**REMARKS**

Claims 1-13 are pending in this application. By this Amendment, claims 3, 6, 11 and 13 are amended to correct the multiple dependency thereof and to place this application into better condition for examination. No new matter is added.

Respectfully submitted,



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# MARKED UP CLAIMS

## AMENDED CLAIMS

[received by the International Bureau on 22 October 2001 (22.10.01);  
original claim 1-19 replaced by amended claims 1-13 (3 pages)]

1. An apparatus for removing body fat in a human body,  
comprising:

a heart rate detector of a human body;

5 a comparator, electrically coupled to said detector,  
between the detected heart rate and a predetermined heart rate  
reference; and

an aerobic athletic equipment operatively controlled by a  
controller responsive to the output of the comparator.

10 2. An apparatus for removing body fat in a human body  
comprising:

a heart rate detector of a human body;

a comparator, electrically coupled to said detector,  
between the detected heart rate and a preset heart rate

15 reference; and

an indicator, coupled to the comparator, that output a  
warning signal responsive to the output of the comparator.

16 3. The apparatus set forth in claim 1 and 2  
further comprising:

20 a pulse generator in low frequency band; and

a transmitter, coupled to said generator, output the  
pulse from said generator to human body in a aerobic exercise  
state.

25 4. The apparatus for removing body fat in a human body,  
comprising:

a pulse generator in low frequency band;

a transmitter, coupled to said generator, output the  
pulse from said generator to human body in a aerobic exercise  
state.

30 5. The apparatus set forth in claim 4, wherein said  
generator changes the frequency band of the electric pulses

at intervals, or changes pulse interval intermittently.

6. The apparatus set forth in ~~one of~~ claims 3 and ~~4~~ claim 3  
wherein said transmitter comprises a contacting means on the  
human body.

5 7. The apparatus set forth in claim 4, wherein said  
contacting means consists of a plurality of positive(+) and  
negative(-) pole pads, arranged such that dipole moment of  
pads should be alternated.

10 8. A method for removing body fat in a human body,  
comprising the steps of:

detecting a heart rate of a human body;  
comparing said detected heart rate to a predetermined  
heart rate; and  
controlling operation of an aerobic athletic equipment  
15 responsive to the output of the comparing.

9. The method set forth in claim 7, wherein controlling  
step controls the driving speed and/or the driving slope of  
said aerobic athletic equipment.

10 10. A method for removing body fat in a human body,  
comprising the steps of:

detecting a heart rate of a human body;  
comparing said detected heart rate to a predetermined  
heart rate; and  
indicating a alarming signal responsive to the output of  
25 the comparator.

11. The method set forth in ~~one of~~ claims 7 to ~~9~~ claim 7  
further comprising:

generating electric pulses of low frequency band; and  
transmitting said generated pulse to human body in a  
30 aerobic exercise state.

12. The method for removing body fat in a human body,  
comprising the steps of:

generating electric pulses of low frequency band; and

transmitting said generated pulse to human body in a aerobic exercise state. *claim 9*

aerobic exercise state. claim 9  
13. The method set forth in [one of claims 9 and 10] wherein the predetermined heart rate reference is determined  
5 based upon an age and/or a maximum heart rate and/or an fatness ratio of an user.